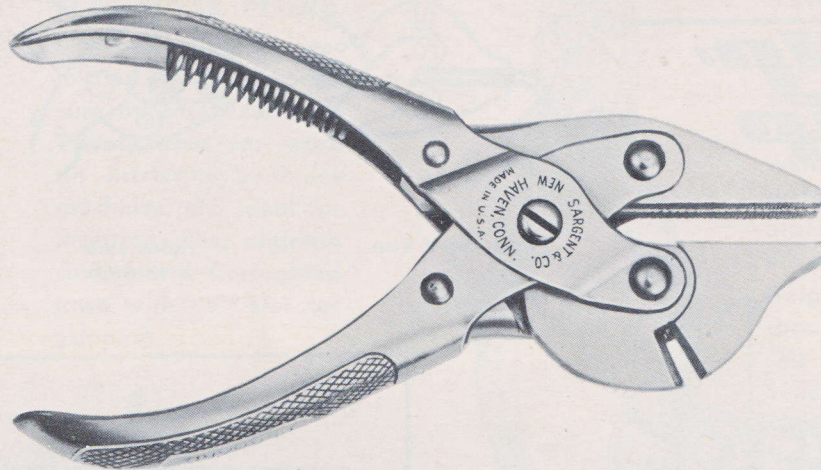
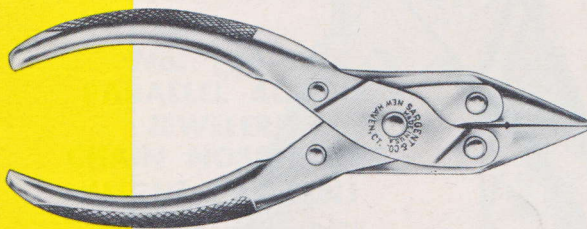


 **SARGENT**

*hand tool division*



## **INDUSTRIAL AND PROFESSIONAL HAND TOOLS**



## **and MISCELLANEOUS HARDWARE ITEMS**

Sargent industrial, professional and home-owner tools are known throughout the world for quality and dependability.

The line includes the unique 'Grip-Snip' and other parallel action compound leverage pliers, punches and special purpose tools; compound leverage nippers and punches; solderless terminal pliers and crimpers; shoe manufacturing repair tools; leather punches; carpenters' tools and garden tools. Each is unsurpassed in its field and each category has its own wide and growing market.

The types and sizes of tools in the Sargent line have been carefully selected to meet your customers' requirements, at the same time permitting you to carry a relatively small inventory for rapid turnover.

Your customers will be as proud to own these Sargent tools as you will be to sell them.

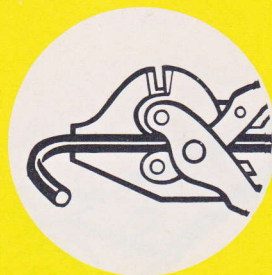


**SARGENT AND COMPANY** NEW HAVEN 9, CONNECTICUT



# OUTSIDE CUTTING PLIERS

**Grip<sup>®</sup>  
Snip<sup>®</sup>**



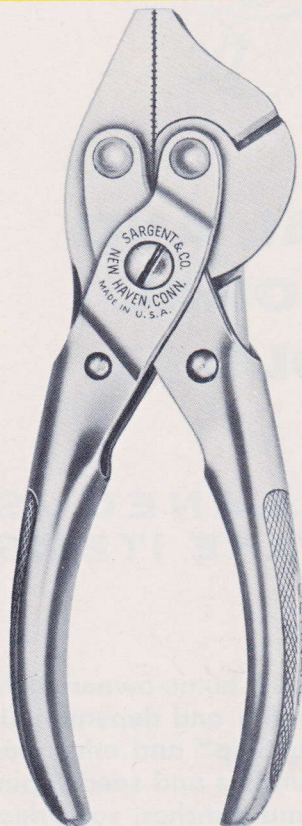
Grips Like A Vise



Holds Like  
a Wrench

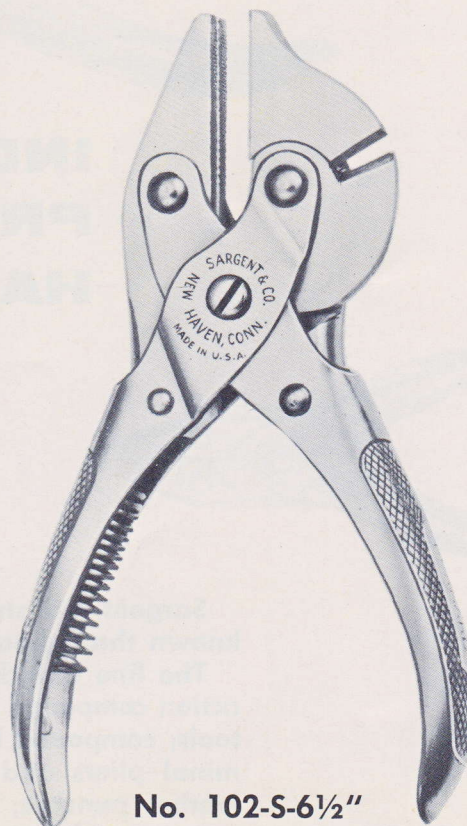


Dual Fulcrum Outside Cutters  
Make Cutting Easy



## No. 102 "GRIP SNIP" OUTSIDE CUTTING PLIERS

Plier, wrench, cutter—the all-purpose tool for industry, repair shops and household use. Serrated parallel jaws of tough nickel molybdenum alloy tool steel for firm grip on nuts, wire, etc. Longitudinal "V" slot holds wire. Open throat for passage of long wire, pins, etc. Outside cutters work where other types cannot. Nickel plated.

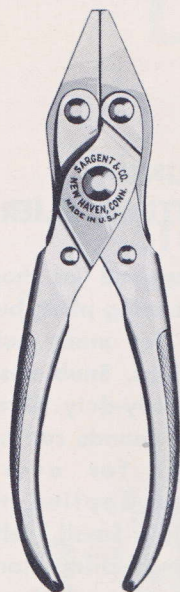


## No. 102-S-6 1/2" SPRING — OPENING OUTSIDE CUTTING PLIER

Same as No. 102 but with fast-acting, self-opening spring handles for high-speed production work. Springs hold jaws open, ready for work. Used extensively by spring and wire manufacturers. Available in 6 1/2" size only.

FOUR SIZES				
Over-all Length	4-1/2"	5-1/2"	6-1/2"	8"
Maximum Opening	27/64"	29/64"	17/32"	41/64"
Jaw Width	9/32"	11/32"	3/8"	1/2"
CUTTING CAPACITIES				
Rod	9/64"	5/32"	11/64"	3/16"
Common Nail	4d	6d	6d	8d

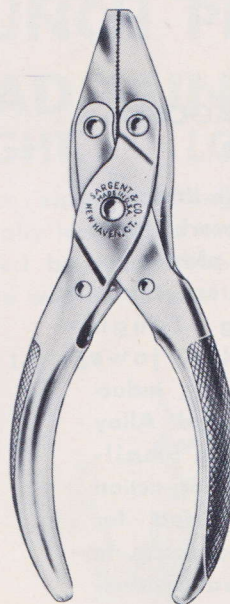




**No. 100  
PARALLEL ACTION  
FLAT-NOSE PLIERS**

A powerful tool permitting maximum pressure on small surfaces. Widely used for work on intricate business machines, etc. Ideal for inserting pins, aligning small parts. Corrugated jaws with "V" slot for gripping.

FOUR SIZES				
Over-all Length	4-1/2"	5-1/2"	6-1/2"	8"
Maximum Opening	27/64"	29/64"	17/32"	41/64"
Jaw Width	9/32"	11/32"	3/8"	1/2"



**No. 103-5''  
PARALLEL ACTION  
JEWELER'S  
FLAT NOSE PLIERS  
(LIGHT PATTERN)**

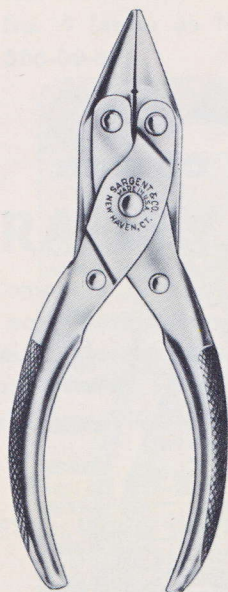
Used for shaping angles and tightening small nuts. Designed for jewelers and opticians, widely used by dental technicians, business-machine servicemen, model-makers. Light weight, easy to use. Corrugated jaws with "V" slot for gripping. Also available with soft smooth jaws.

Maximum Opening:  
13/32";  
Jaw Width: 1/4"

**No. 106-5''  
PARALLEL ACTION  
JEWELER'S  
CHAIN NOSE PLIERS  
(LIGHT PATTERN)**

Tapered nose, .040" at tip, for delicate work. Shapes, loops and holds small pieces. Smooth jaws. "V" slot across back of jaws for gripping and bending wire. Perfect for all types of small intricate work.

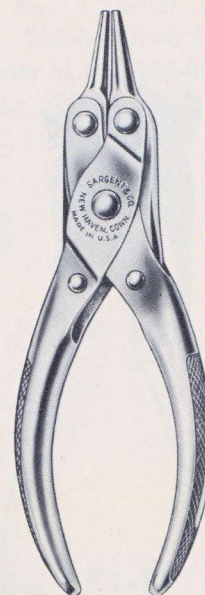
Maximum Opening:  
13/32"



**No. 104-5''  
PARALLEL ACTION  
JEWELER'S  
ROUND NOSE PLIERS  
(LIGHT PATTERN)**

For shaping wire and metal strips. Round, slim jaws tapered to 3/32" at tip; ideal for looping tiny chain links, repairing beads, etc., and all types of intricate work.

Maximum Opening:  
13/32"



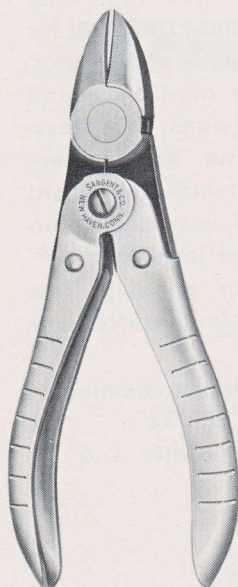
## **PARALLEL ACTION PLIERS**

- COMPOUND LEVERAGE
- OPEN THROAT
- HEAT-TREATED ALLOY TOOL STEEL JAWS
- NICKEL PLATED



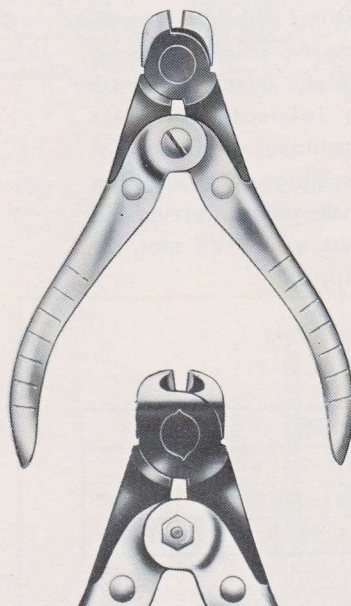
# CUTTING TOOLS

## No. 177-5 1/2" SPRING — ACTION DIAGONAL CUTTING PLIER



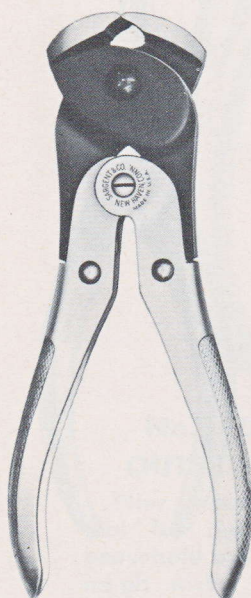
Cuts soft, thin wire close to work; trims lead and plastic; removes burrs; trims flashing. Tough Champalloy jaws heat-treated, induction hardened. Alloy steel rivet. Small-spread spring-action handles perfect for women operators in high-speed production work. Nickel plated handles. Maximum Opening: 1/4"; Cutter Length: 13/16"

## No. 176-5" HEAVY-DUTY SPRING- ACTION DIAGONAL CUTTING PLIER



Designed as hog ring cutting plier, but ideal for many cutting jobs. Snub nose for heavy-duty. Over seven pounds cutting power for every pound applied to handles. Small, self-opening spring handles reduce fatigue. Fully hardened Champalloy steel jaws, induction hardened cutting edges, hardened center rivet. Nickel plated handles. IDEAL FOR AUTO TRIM TRADE Maximum Opening: 1/8"; Cutter Length: 1/4"

## No. 165-6" END — CUTTING PLIER



A close-cutting compound leverage tool. Perfect for cutting wire, nails, small rivets; for pulling wires. Self-opening handles. Champalloy steel jaws drop-forged, induction hardened, machined to precision gauges. Nickel plated handles. Maximum Opening: 5/32"; Cutter Width: 1-1/8"



## No. 315-4" "NIBBLE-NOSE" WIRE CUTTER

Low-cost tool for cutting soft baling wire. Shear-action cutters, case hardened and tempered. Cold-rolled handles. Handy for receiving departments, offices, household use. Plain steel finish. Carded.



# LEATHER-WORKING TOOLS

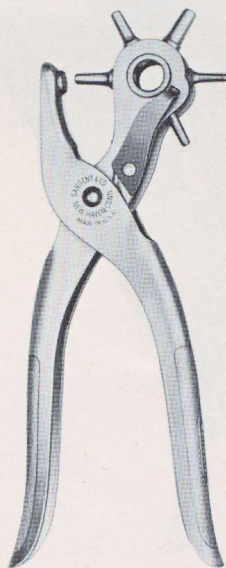
## SPRING BELT PUNCH PLIERS

### REVOLVING HEAD PUNCHES

#### STRONG • LIGHT-WEIGHT • LOW COST

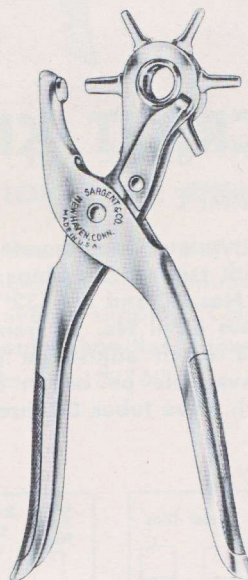
Six-tube revolving head for quick, easy interchangeability. Heat-treated index spring automatically locks tubes into punching position. Head rigidly supported between ribbed struts. Self-opening spring handles. Durable cold-rolled steel handles. Plain steel finish.

Maximum reach: 1-5/16"



**No. 386-8"**

Regularly furnished with Drive Tubes Nos. 1-2-3-4-5-7. (See Page 6). Available with No. 00 in place of No. 4 (order as No. 386-00-8").

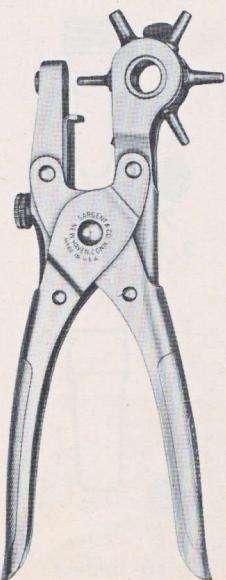


**No. 286-8"**

Regularly furnished with Screw Tubes Nos. 1-2-3-4-5-7 (See Page 6). Available with No. 0 in place of No. 4 (order as No. 286-0-8") or 00 (order as No. 286-00-8").

## PARALLEL ACTION PUNCHES

Compound leverage, parallel jaws. Rugged, heavy-duty tools for easy cutting through thick leather. Interchangeable screw tubes, replaceable brass screw anvils. Adjustable gauge for locating holes. Self-opening spring handles. Sturdy cold-rolled steel frame. Nickel finish.

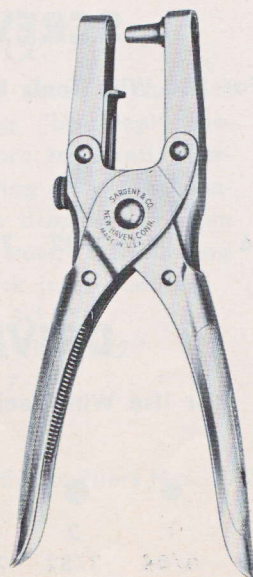


**No. 186-8"**  
**REVOLVING HEAD PUNCH**  
**SIX TUBE**

Head held rigid by hardened steel straps forming the upper jaw.

Regularly furnished with Screw Tubes Nos. 1-2-3-4-5-7 (See Page 6) Available with No. 00 in place of No. 4 (order as No. 186-00-8").




Maximum Reach:  
1-5/8",  
controlled by gauge.



**No. 181-8"**  
**SINGLE TUBE PUNCH**  
**SCREW TUBES**

May be used with three different easily-changed screw tubes — Nos. 8, 9, and 10. Maximum Reach: 2", controlled by adjustable gauge.

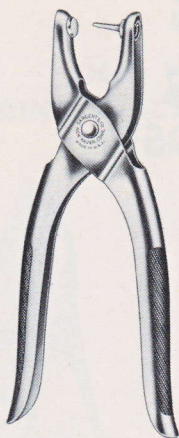


		
No. 8	9	10
Diameter 7/32	1/4	9/32 inches



# SPRING BELT PUNCH PLIERS

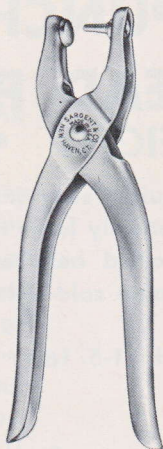
Low-cost punches for belting and general leatherwork. Lightweight and self-opening. Riveted copper anvils. Cold-rolled steel frames with plain steel finish.



## No. 281-8"

May be used with nine different screw tubes: Nos. 00 through 7.

Maximum Reach:  
1-5/16"



## No. 361-6"

Available with a choice of riveted tubes Nos. 1 through 6 and with special interchangeable tubes Nos. 00 and 0.

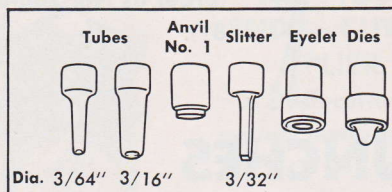
Maximum Reach:  
1"



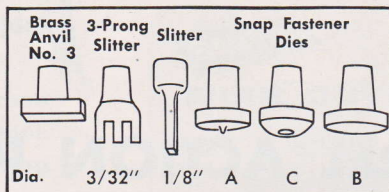
## LEATHERCRAFT KIT No. 211-8"

### 3-IN-1 LEATHERCRAFT KIT

Inexpensive kit for all types of leathercraft work: Nickel-plated frame with tapered bushings; interchangeable drive tubes Nos. 00 and 7; 3/32" slitter punch; eyelet dies; brass anvil No. 1. Frame has 7/8"-reach spacer, 3/8"-reach adjustable gauge, with thumb screws. Available on order: Special attachments (see below); drive tubes 00 through 7.



REGULAR ATTACHMENTS  
Furnished with Kit



SPECIAL ATTACHMENTS  
Furnished on Order

NOTE: Die "A" with "B" sets button and eyelet; "A" with "C" sets cage springs and posts.

## PUNCH TUBES

Tough Tool Steel For Clean-Cut Punching



### SCREW TUBES

For Use With Tools Nos. 186, 286, and 281

No.	00	0	1	2	3	4	5	6	7
Diameter	3/64	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16 inches



### DRIVE TUBES

For Use With Tools Nos. 386 and 211

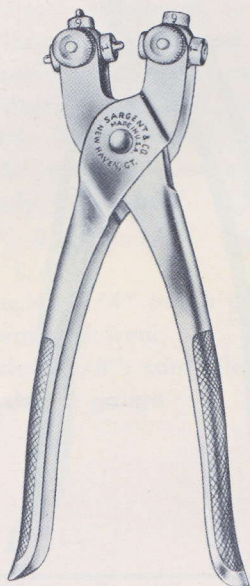
No.	00	0	1	2	3	4	5	6	7
Diameter	3/64	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16 inches





# SHOE-WORKER'S TOOLS

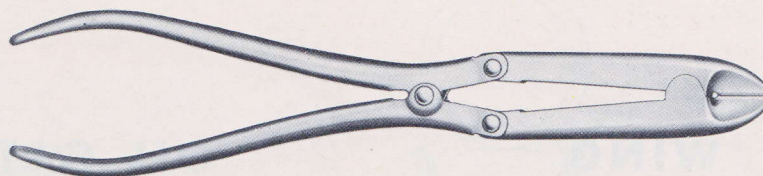
Ruggedly-built, expertly-designed tools widely used in the manufacture and repair of shoes.



## No. 240-8" COMBINATION SHOE EYELET PLIERS

Four tools in one: four sets of dies in revolving heads roll over 80% of popular-size eyelets. Screw lock prevents slipping. Cold-rolled steel frame, self-opening handles. Nickel Plate.

Maximum Reach: 13/16"



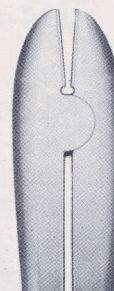
## No. 195-12"

Reaches way into toes of shoes to cut tack points flush, without burring. "Up-swept" handles leave plenty of clearance for hand. Four-fulcrum leverage makes cutting easy. Precision-machined heat-treated jaws drop-forged from nickel molybdenum alloy steel. Self-opening handles. Polished jaws, black jetal handles.

Maximum Reach: 5-1/2";

Maximum Opening at Tip: 5/32"

Cutter Length: 7/8"



See Page 8 for Terminal and Eyelet Pliers Nos. 230, 231, and 233.

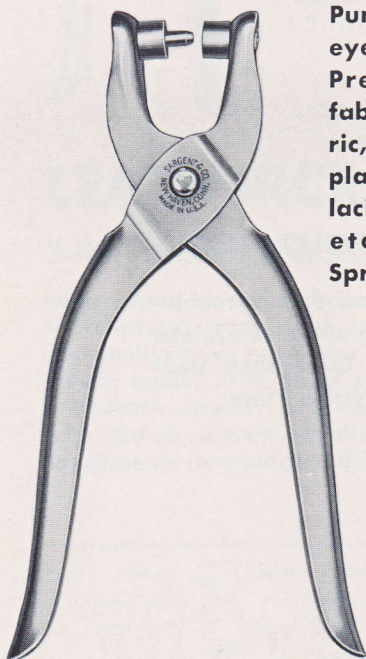


# MISCELLANEOUS TOOLS

## EYELET PLIER

### No. 61

Punches hole and sets eyelet at same time. Prevents tearing of fabric. For use on fabric, paper, cardboard, plastic, etc. For belts, lacings, shoes, books, etc. Nickel plated. Spring handles.



## TERMINAL AND EYELET PLIER

### No. 230, 231, 233-8"

Used principally to crimp ring terminals for solderless connections in ignition systems. Also used for setting and rolling eyelets and grommets in leather and canvas. Cold-rolled steel frame. Self-opening. Plain steel finish.

Maximum Reach: 11/16"

Note: These pliers also available in kits with 1000 terminals:

### TERMINALS



Plier	Kit	Terminal No.—	Size	Post Diameter
230	85	2	7/32"	3/16"
231	82	1	5/32"	1/8"
233	88	4	9/32"	1/4"

## WING DIVIDERS

### Nos. 314-6", 314-8"

Low cost but extremely accurate. For scribing arcs, dividing lines, gauging uniformity. Both "free" and "tension" adjustments. Swaged, case-hardened points leave sharp outline. Nickel plated.



Length	6 inches	8 inches
Minimum Radius	1/8"	3/16"
Maximum Radius	8-1/2"	12"

## OIL GATES



### Nos. 71 through 75 "Perfection" Model GUARANTEED LEAK-PROOF

Precision-made for all types of syrups and fluids—including even such searching liquids as naphtha and benzine. Special process for grinding or lapping the valve insures perfect leak-proof fit. Every Oil Gate tested under pressure. Double padlock eyelet prevents pilferage, assures tight closing. Straight shank, standard pipe thread. Attaches to pipe with couplings.

Nos:	71	72	73	74	75
For Pipe:	3/4"	1"	1-1/4"	1-1/2"	2"
Dia. Eye:	21/64"	21/64"	23/64"	3/8"	3/8"



## METAL PUNCH KIT

### No. 9-9"

For all types of sheet-metal work. Compound leverage tool punches through galvanized metal up to 16 gauge. Seven hardened, tempered tool steel punches and dies punch clean-cut holes without distortion, Tough malleable iron head. Rust-resistant Black Oxide finish. Kit also includes screw-driver and sturdy metal box.

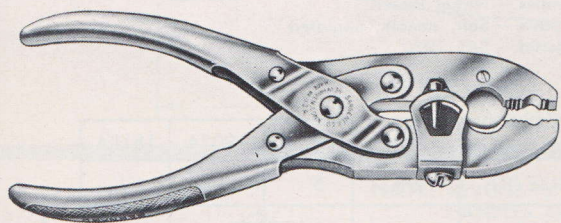
Dies:  $1/16''$ ,  $3/32''$ ,  $1/8''$ ,  $5/32''$ ,  $3/16''$ ,  $7/32''$ ,  $1/4''$ .

Maximum Capacity:  $1/4''$  in 16 gauge galvanized iron.

Maximum Reach:  $1-1/8''$ , controlled by adjustable gauge.



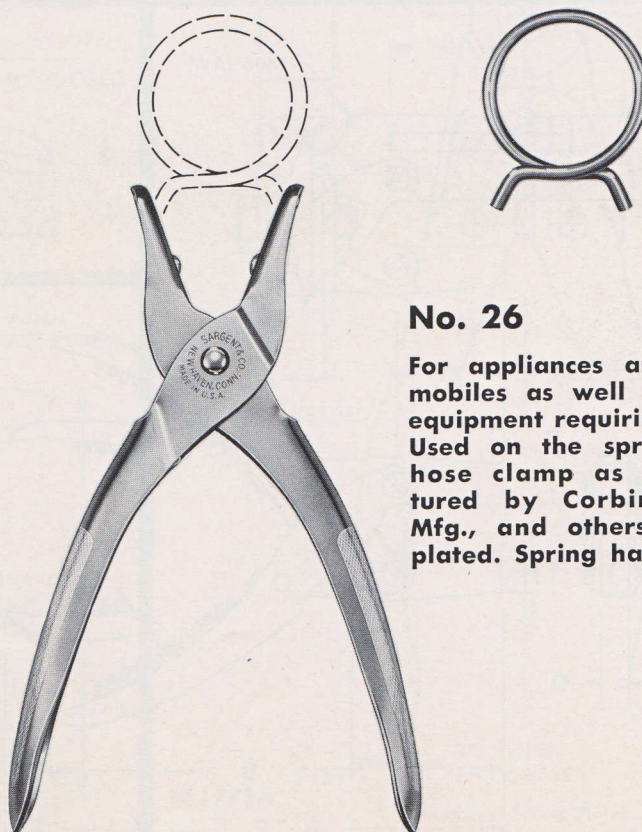
## UNIVERSAL BELT PLIER



### No. 119-6" PLIER FOR ROUND AND "V" BELTS

The all-new universal belt plier for quick repairs on round and "V" belts from  $3/16''$  to  $3/8''$ . Cuts, pierces and hooks. Clean-cutting — no trimming necessary. Notched for positive centering of  $1/4''$  and  $3/8''$  hooks. Adjustable end-spacing stripper from  $1/4''$  to  $5/16''$ . Powerful compound leverage. Replaceable hardened steel tube and blade. Nickel plated.

## HOSE CLAMP PLIER



### No. 26

For appliances and automobiles as well as other equipment requiring hoses. Used on the spring type hose clamp as manufactured by Corbin, Eaton Mfg., and others. Nickel plated. Spring handles.



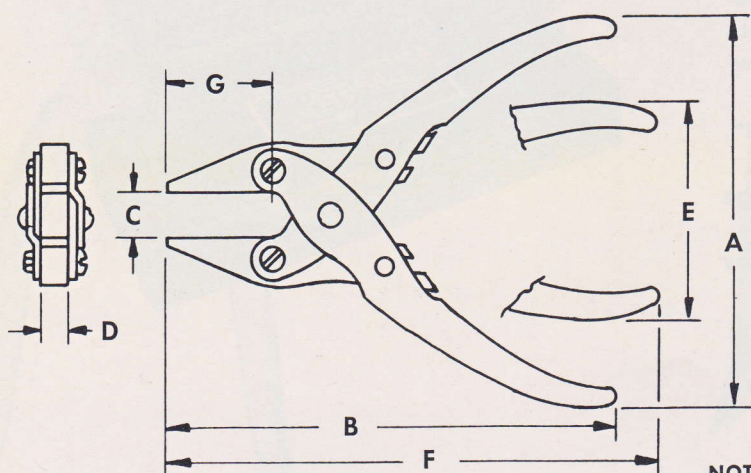
# BLANK TOOLS AND FRAMES

## AVAILABLE FROM STOCK

SEE PRICE BOOK FOR FULL HOW-TO-ORDER INFORMATION

### SPECIAL APPLICATION PROBLEMS

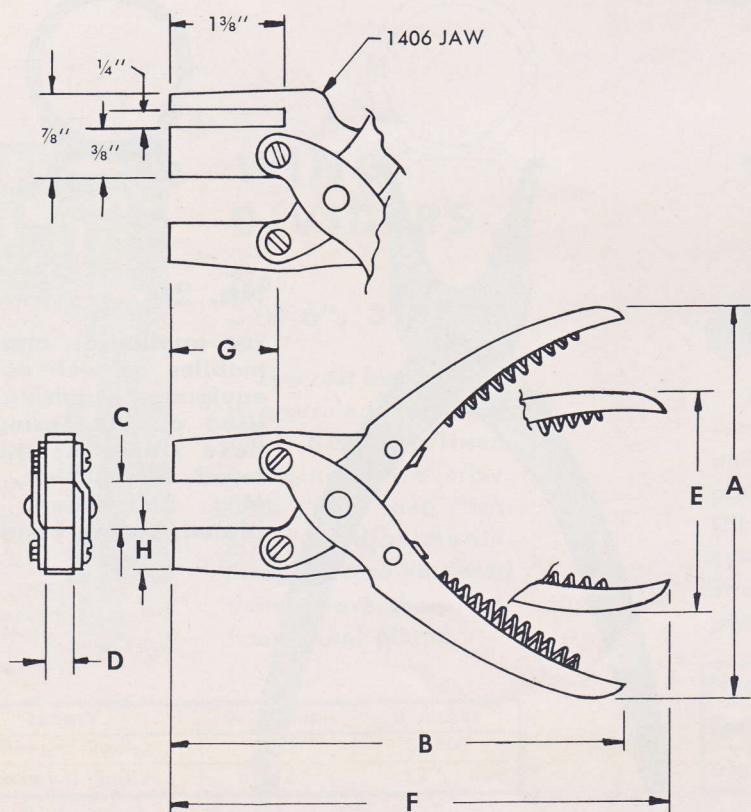
As we can supply the jaws, handles, rivets and springs for Sargent Compound leverage pliers all or in part, assembled or unassembled with blank, nickel plated or soft and smooth jaws we are able to easily develop tools to meet special application problems. Our prices are based upon minimum production quantities so do not hesitate to call on us if you have a unique or special application.



Handles — Nickel Plated  
Jaws — Soft, smooth, unplated  
Material — SAE 4615

TOOL No.	1004A	1005A	1006A	1008A	1035A
SIZE/IN.	4½	5½	6½	8	5
A	3 <sup>11</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>16</sub>	4 <sup>5</sup> / <sub>8</sub>	6¼	3 <sup>1</sup> / <sub>8</sub>
B	4 <sup>1</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	4 <sup>9</sup> / <sub>16</sub>
C	2 <sup>7</sup> / <sub>64</sub>	1 <sup>5</sup> / <sub>32</sub>	1 <sup>7</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>64</sub>
D	9 <sup>1</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>8</sub>	1½	¼
E	1 <sup>15</sup> / <sub>32</sub>	2	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>21</sup> / <sub>32</sub>
F	4 <sup>5</sup> / <sub>8</sub>	5 <sup>9</sup> / <sub>16</sub>	6½	8 <sup>1</sup> / <sub>8</sub>	5
G	3 <sup>1</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>21</sup> / <sub>64</sub>	1

NOTE: 8006A AND 8008A ALSO AVAILABLE WITH OPEN HANDLES AND SPRING OPERATED — ON ORDER ONLY.

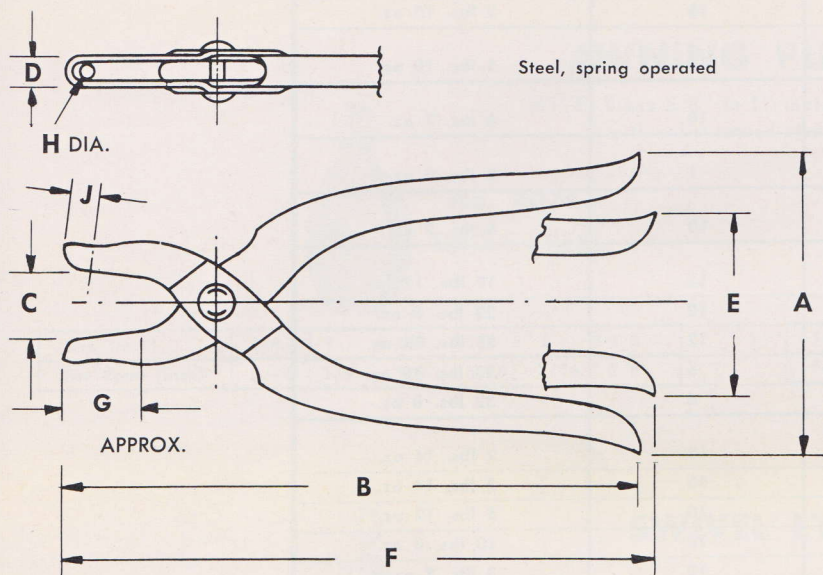


Handles — Nickel Plated  
Jaws — Soft, smooth, unplated  
Material — SAE 1020

TOOL No.	1406A	1802A	1903A	1818A
SIZE/IN.	6 <sup>5</sup> / <sub>8</sub>	5	6 <sup>5</sup> / <sub>8</sub>	8 <sup>13</sup> / <sub>16</sub>
A	4	2 <sup>13</sup> / <sub>16</sub>	4	5¼
B	6¼	4 <sup>23</sup> / <sub>32</sub>	6¼	7 <sup>7</sup> / <sub>8</sub>
C (OPEN)	2 <sup>23</sup> / <sub>32</sub>	9 <sup>1</sup> / <sub>16</sub>	2 <sup>23</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>8</sub>
C (CLOSED)	¼	1 <sup>11</sup> / <sub>64</sub>	¼	5 <sup>1</sup> / <sub>8</sub>
D	3 <sup>1</sup> / <sub>8</sub>	1 <sup>9</sup> / <sub>64</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>31</sup> / <sub>64</sub>
E	1 <sup>15</sup> / <sub>16</sub>	1 <sup>13</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>64</sub>	1¾
F	6 <sup>5</sup> / <sub>8</sub>	5	6 <sup>5</sup> / <sub>8</sub>	8 <sup>11</sup> / <sub>16</sub>
G	1 <sup>11</sup> / <sub>32</sub>	2 <sup>5</sup> / <sub>32</sub>	1 <sup>11</sup> / <sub>32</sub>	2 <sup>3</sup> / <sub>32</sub>
H	3 <sup>1</sup> / <sub>8</sub>	1 <sup>9</sup> / <sub>64</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>32</sub>

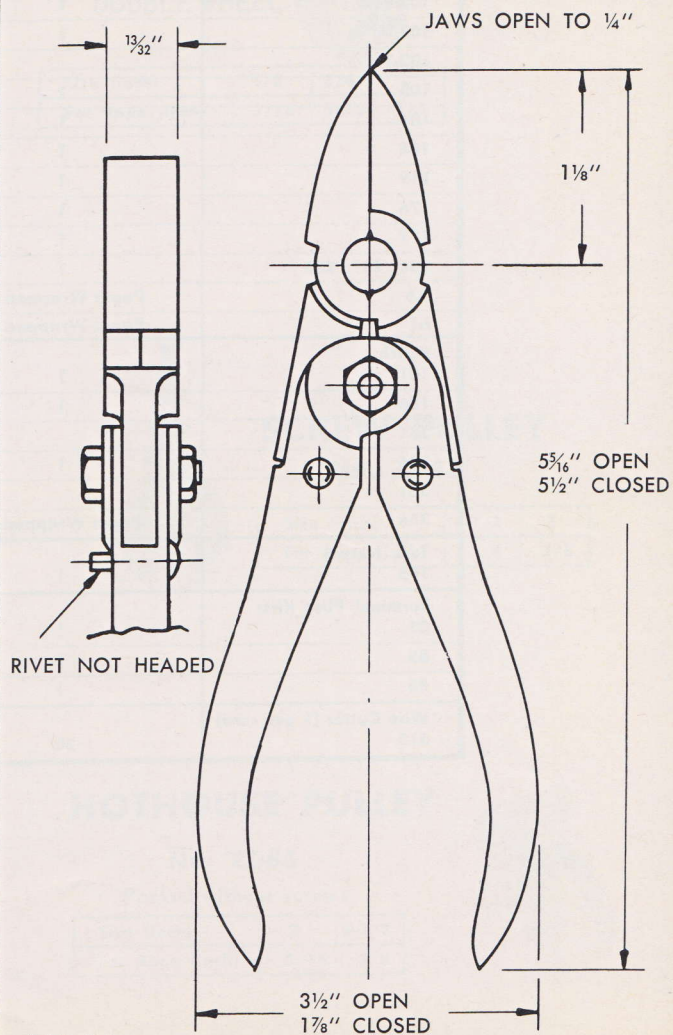
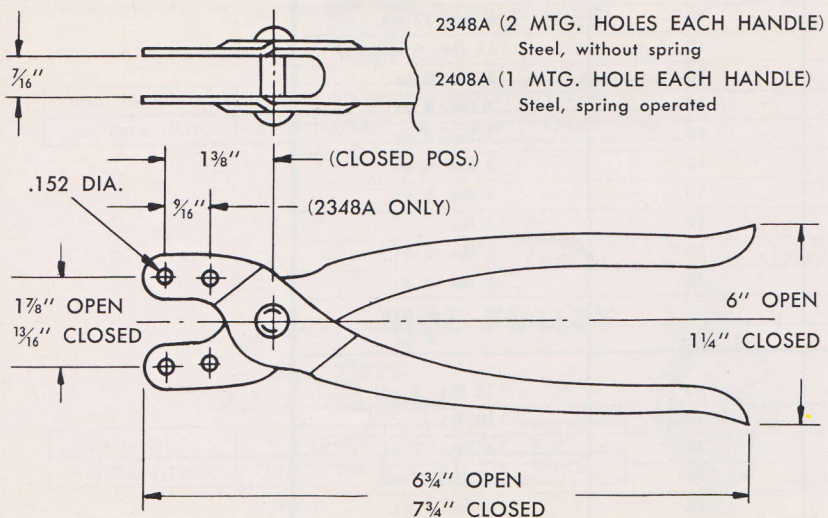


# OTHER DESIGNS AVAILABLE ON REQUEST



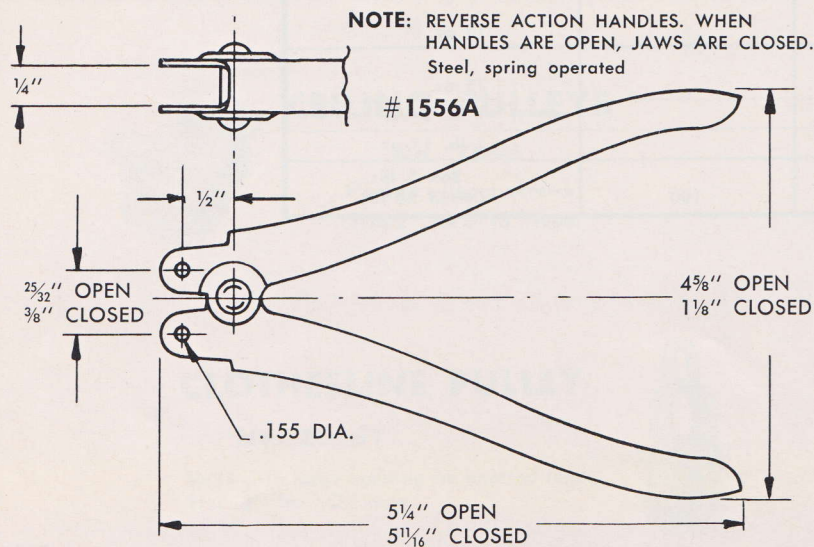
TOOL No.	2308A	2818A	3616A
	2308B	2818B	3616B
SIZE/IN.	8	8	6
A	5 $\frac{3}{4}$	4 $\frac{7}{16}$	4 $\frac{1}{4}$
B	7 $\frac{1}{2}$	7 $\frac{3}{4}$	5 $\frac{3}{4}$
C (OPEN)	1 $\frac{3}{32}$	1 $\frac{13}{32}$	1 $\frac{9}{64}$
C (CLOSED)	$\frac{17}{64}$	$\frac{11}{16}$	$\frac{9}{16}$
D	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{7}{16}$
E	1 $\frac{3}{4}$	2 $\frac{1}{8}$	1 $\frac{31}{32}$
F	8 $\frac{5}{32}$	8 $\frac{1}{8}$	6 $\frac{1}{4}$
G	$\frac{7}{8}$	1 $\frac{1}{8}$	$\frac{7}{8}$
H OUTSIDE HANDLE	.225	.192	.258
H INSIDE HANDLE	.225	.302	.192
J	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{5}{16}$

NOTE: TOOLS "A" WITH "H" HOLES. TOOLS "B" NO HOLES



#1775A

Handles — Nickel Plated, spring operated  
Jaws — Soft, unplated  
Material — Crucible Steel Co. "Champalloy"





# PLIERS

## AND SPECIAL PURPOSE TOOLS

### PACKING and WEIGHTS

TOOL	IN BOX	IN CARTON	WT. CARTON
Dividers 314-6"	1 per card	10	2 lbs. 7 oz.
314-8"	1 per card	10	3 lbs. 10 oz.
Eyelet Plier 240	1	10	5 lbs. 10 oz.
Leathercraft Kit 211	1	10	6 lbs. 7 oz.
Metal Punch Kit 9		1	3 lbs. 2 oz.
Nippers 165	1	10	6 lbs. 2 oz.
Oil Gates 71		12	19 lbs. 12 oz.
72		12	23 lbs. 8 oz.
73		12	35 lbs. 12 oz.
74		6	23 lbs. 12 oz.
75		6	32 lbs. 8 oz.
Pliers 100-4 1/2"	1	10	2 lbs. 14 oz.
100-5 1/2"	1	10	3 lbs. 14 oz.
100-6 1/2"	1	10	5 lbs. 12 oz.
100-8"	1	10	10 lbs. 8 oz.
102-4 1/2"	1	10	3 lbs. 8 oz.
102-5 1/2"	1	10	4 lbs. 4 oz.
102-6 1/2"	1	10	5 lbs. 12 oz.
102-8"	1	10	11 lbs. 4 oz.
102-5-6 1/2"		10	5 lbs. 8 oz.
103	1	10	2 lbs. 8 oz.
104	1	10	2 lbs. 8 oz.
106	1	10	2 lbs. 8 oz.
119	1	10	5 lbs. 5 oz.
176	1	10	3 lbs.
177	1	10	3 lbs. 2 oz.
230, 231, 233	1	10	4 lbs. 8 oz.
26	Paper Wrapped		7 oz.
61	Paper Wrapped		4 oz.
Punch 181	1	10	10 lbs. 8 oz.
186	1	10	10 lbs.
281		10	4 lbs. 13 oz.
286	1	10	6 lbs. 4 oz.
361		10	2 lbs. 8 oz.
386	Paper Wrapped	10	5 lbs. 9 oz.
Tack Nipper 195	1		13 oz.
Terminal Plier Kits: 82	1		15 oz.
85	1		1 lb. 2 oz.
88	1		1 lb. 14 oz.
Wire Cutter (1 per card) 315	20	100	Box 5 lbs. Carton 26 lbs.



# MISCELLANEOUS HARDWARE

## PULLEYS

Zinc Plated IRON

### AWNING PULLEYS

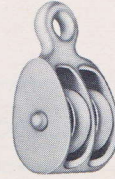
NOTE: Sizes 5/8" to 1" inclusive furnished with solid turned steel wheels.



**No. ZD74**  
SINGLE WHEEL

Size (inch)	3/4	1	1-1/4	1-1/2	2	2-1/2
For Rope (inch)	3/16	1/4	1/4	5/16	7/16	5/8

**No. ZD76**  
DOUBLE WHEEL



Size (inch)	3/4	1	1-1/2	2
For Rope (inch)	3/16	1/4	5/16	7/16

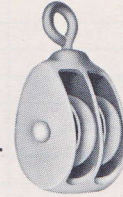
### SWIVEL EYES



**No. ZD73**  
SINGLE WHEEL

Size (inch)	5/8	3/4	1	1-1/4	1-1/2	2
For Rope (inch)	3/16	3/16	1/4	1/4	5/16	7/16

**No. ZD78**  
DOUBLE WHEEL



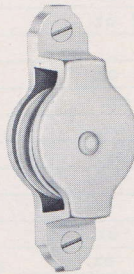
Size (inch)	5/8	3/4	1
For Rope (inch)	3/16	3/16	1/4

### SIDE PULLEY

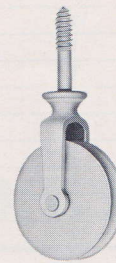
**No. ZD25**

Packed without screws

Size (inch)	1	1-1/2	2	2-1/2	3
For Rope (inch)	1/4	1/4	5/16	3/8	7/16



**SCREW PULLEY**  
**No. ZD45**

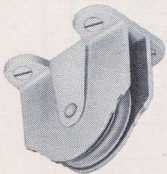


Size (inch)	1-1/2	2
For Rope (inch)	1/4	3/8

### CEILING PULLEYS

**No. ZD95**

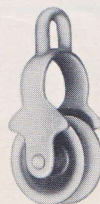
Packed without screws  
Size 2" for 5/16" rope.



### CLOTHESLINE PULLEY

**No. ZD161**

Made with large opening for knotted rope.  
Size: 2" for 1/2" rope.



### HOTHOUSE PULLEY

**No. ZD85**

Packed without screws

Size (inch)	2	2-1/2
For Rope (inch)	5/16	3/8





## MISCELLANEOUS HARDWARE PACKING and WEIGHTS

	IN BOX (DZ.)	BOX WT.	IN CASE (DZ.)	CASE WT.
Pulleys				
ZD25-1"	1	2 lbs.	8	17 lbs.
ZD25-1½"	1	3 lbs. 12 oz.	8	31 lbs. 12 oz.
ZD25-2"	1	6 lbs. 4 oz.	8	52 lbs. 4 oz.
ZD25-2½"	1	11 lbs.	3	33 lbs. 14 oz.
ZD25-3"	½	8 lbs.	2	33 lbs.
ZD45-1½"	1	2 lbs. 6 oz.	12	28 lbs. 10 oz.
ZD45-2"	1	4 lbs. 6 oz.	6	26 lbs. 8 oz.
ZD73-⅝"	1	14 oz.	12	13 lbs. 4 oz.
ZD73-¾"	1	1 lb. 8 oz.	12	18 lbs.
ZD73-1"	1	2 lbs.	12	26 lbs. 4 oz.
ZD73-1¼"	1	2 lbs. 8 oz.	12	34 lbs. 8 oz.
ZD73-1½"	1	5 lbs. 2 oz.	6	31 lbs. 8 oz.
ZD73-2"	½	6 lbs.	3	35 lbs. 8 oz.
ZD74-¾"	1	1 lb. 8 oz.	12	19 lbs.
ZD74-1"	1	2 lbs. 2 oz.	12	27 lbs. 8 oz.
ZD74-1¼"	1	2 lbs. 12 oz.	12	34 lbs. 8 oz.
ZD74-1½"	1	5 lbs.	6	31 lbs. 8 oz.
ZD74-2"	½	5 lbs. 12 oz.	3	35 lbs. 12 oz.
ZD74-2½"	½	9 lbs. 8 oz.	2	39 lbs.
ZD76-¾"	1	2 lbs. 8 oz.	8	22 lbs.
ZD76-1"	1	3 lbs. 8 oz.	6	24 lbs. 8 oz.
ZD76-1½"	1	9 lbs.	4	36 lbs.
ZD76-2"	½	10 lbs.	2	40 lbs.
ZD78-⅝"	1	1 lb. 8 oz.	8	14 lbs. 6 oz.
ZD78-¾"	1	2 lbs. 8 oz.	8	20 lbs. 8 oz.
ZD78-1"	1	3 lbs.	6	23 lbs.
ZD85-2"	½	4 lbs. 12 oz.	4	40 lbs. 8 oz.
ZD85-2½"	½	7 lbs. 8 oz.	2	31 lbs. 12 oz.
ZD95-2"	1	9 lbs.	4	36 lbs. 8 oz.
ZD161-2"	1	5 lbs. 4 oz.	6	31 lbs. 12 oz.



# MISCELLANEOUS HARDWARE (Continued)

## COIL DOOR SPRINGS



### Nos. BJ160, BJ162 and BJ164

#### "Victor" Model

Tension can be applied or released instantly. Top casting self-retained. No. BJ164 has two screw holes at each end; other numbers have one.

Finish: Black Jappanned

NUMBERS	OVER-ALL-LENGTH	SPRING DIAMETER	FOR DOORS
BJ160	9"	3/4"	Light Screen
BJ162	11"	15/16"	Medium
BJ164	13"	1"	Large

### Nos. BJ61, BJ62 and BJ63

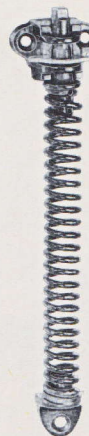
#### "Champion" Model

#### Heavy-Duty

Tension can be applied or released instantly. Wrought steel collars; No. BJ63 has two screw holes at each end; others numbers have one.

Finish: Black Jappanned

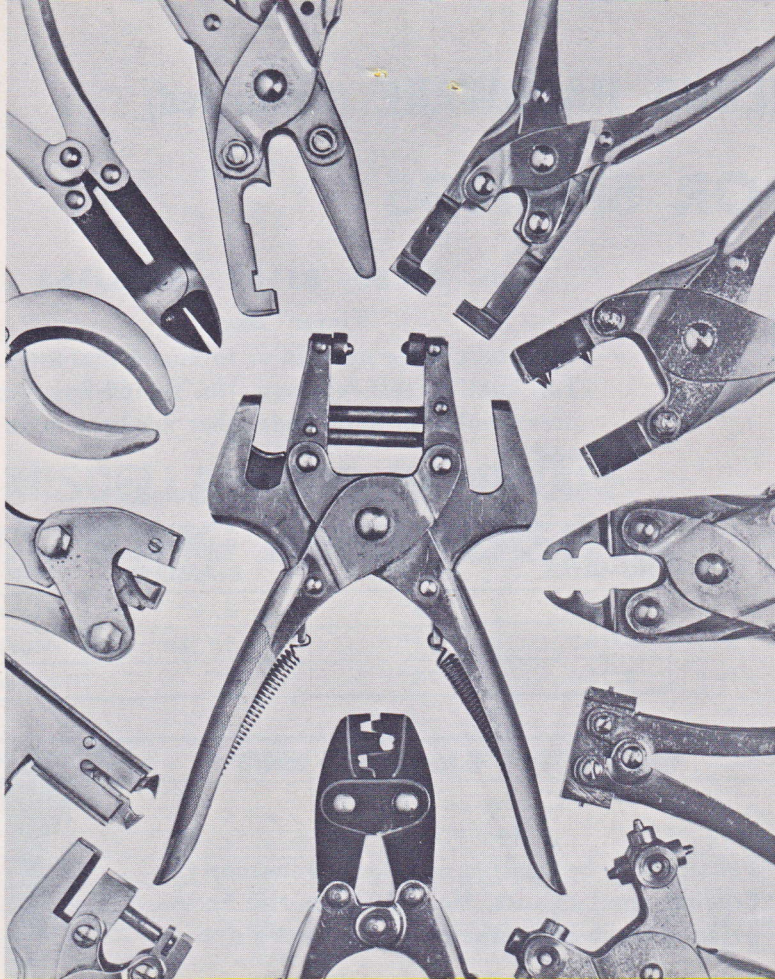
NUMBER	OVER-ALL-LENGTH	SPRING DIAMETER
BJ61	11"	7/8"
BJ62	12"	1"
BJ63	14"	1-1/8"



## PACKING and WEIGHTS

IN BOX (DZ.)		WT. BOX	IN CASE (DZ.)		WT. CASE
Door Springs					
BJ61	1	9 lbs. 8 oz.	4		39 lbs.
BJ62	1/2	5 lbs. 9 oz.	4		48 lbs.
BJ63	1/2	9 lbs.	2		36 lbs.
BJ160	1	5 lbs. 4 oz.	8		44 lbs.
BJ162	1	9 lbs.	4		37 lbs.
BJ164	1/2	7 lbs.	4		52 lbs.





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